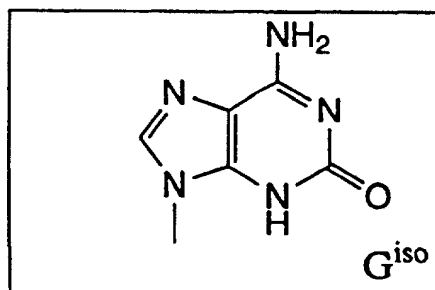
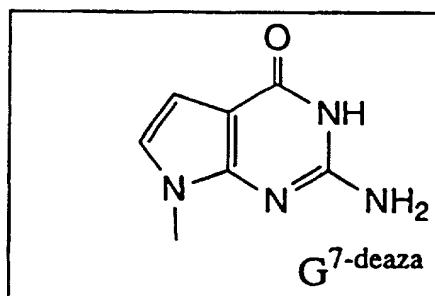
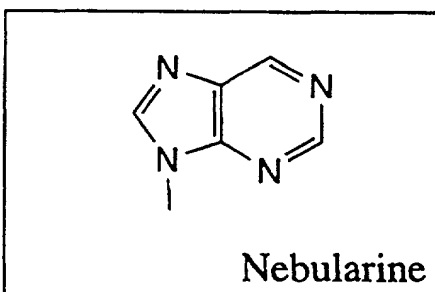
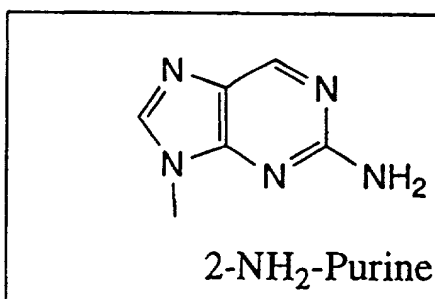
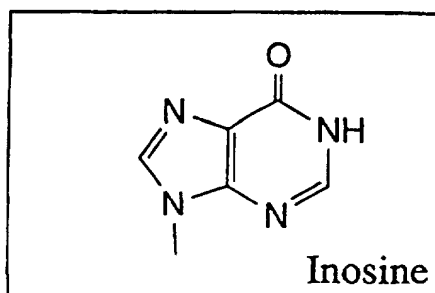


Guanosine Modifications used in the study**FIG. 1A**

5'-NNNNX1X2CGX3X4NNNNN-3'.

Abasic (1', 2'-deoxyribose)

Oligo 91-3: $X_1 = R, X_2 = A, X_3 = T, X_4 = T$

Oligo 91-4: $X_2 = R, X_1 = G, X_3 = T, X_4 = T$

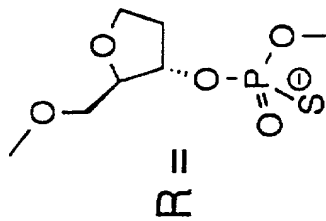


FIG. 1B-1

5'-NNNNX₁X₂CGX₃X₄NNNN-3'.

Abasic (1,3-propanediol)

Oligo 109-4 : X₁ = R, X₂ = A, X₃ = T, X₄ = T

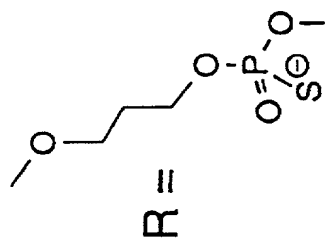


FIG. 1B-2

5'-NNNNNX1X2CGX3X4NNNNN-3'.

3-Nitropyrrole

Oligo 105-4 : $X_1 = R$, $X_2 = A$, $X_3 = T$, $X_4 = T$

Oligo 105-3: $X_2 = R$, $X_1 = G$, $X_3 = T$, $X_4 = T$

R =

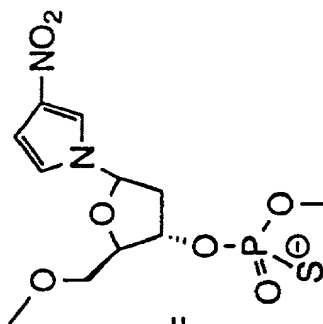


FIG. 1B-3

5'-NNNNNX1X2CGX3X4NNNNN-3'.

5-Nitroindole

Oligo 107-4 : $X_1 = R$, $X_2 = A$, $X_3 = T$, $X_4 = T$

Oligo 107-7: $X_4 = R$, $X_1 = G$, $X_2 = A$, $X_3 = T$

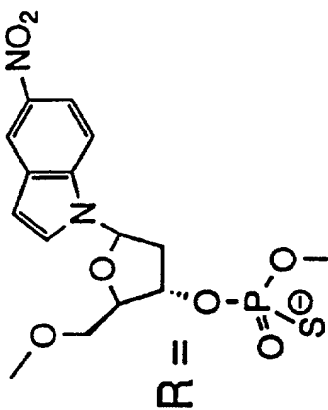


FIG. 1B-4

1',2'-Dideoxyribose Substitution

HYB No.	Sequences and Modification (5'-3')	Batch No.
HYB1158	CTATCTGAC <u>G</u> TTCTCTGT	D7-131-1
HYB1160	CTA <u>X</u> XTGACGTTCTCTGT	D7-131-12
HYB1161	CTATCTGA <u>X</u> GTTCTCTGT	D7-131-13

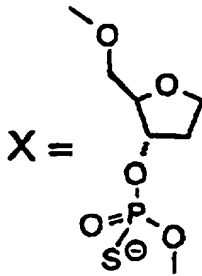


FIG. 2A

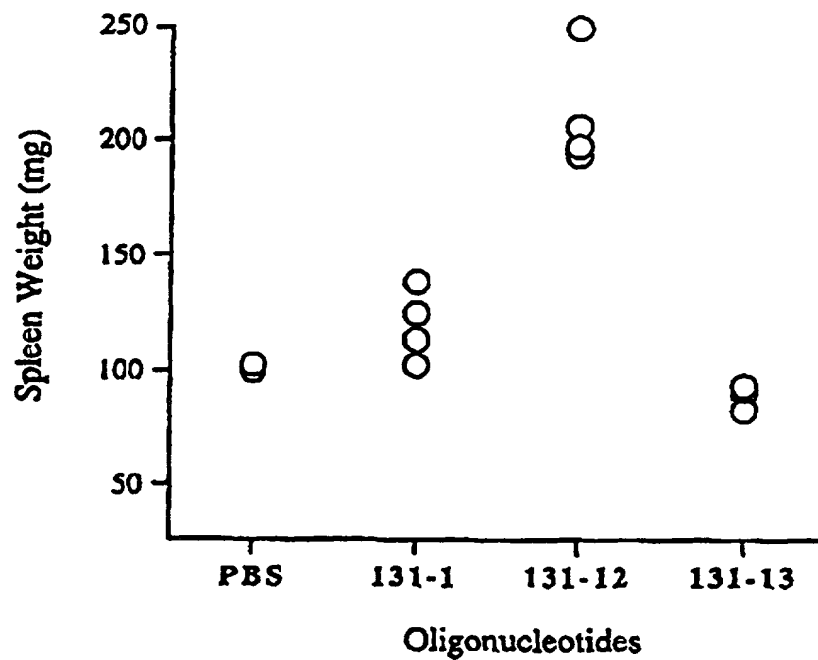


FIG. 2B

1',2'-Dideoxyribose Substitution

HYP No.	Sequences and Modification (5'-3')	Batch No.
HYP1159	CCTACTAG <u>C</u> GTTCTCATC	D7-133-1
HYP1162	CCTXXTAGCGTTCTCATC	D7-133-12
HYP1163	CCTACTAGXGTTCTCATC	D7-133-13

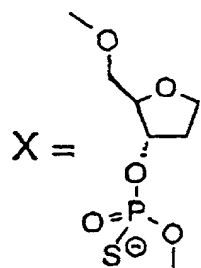


FIG. 3A

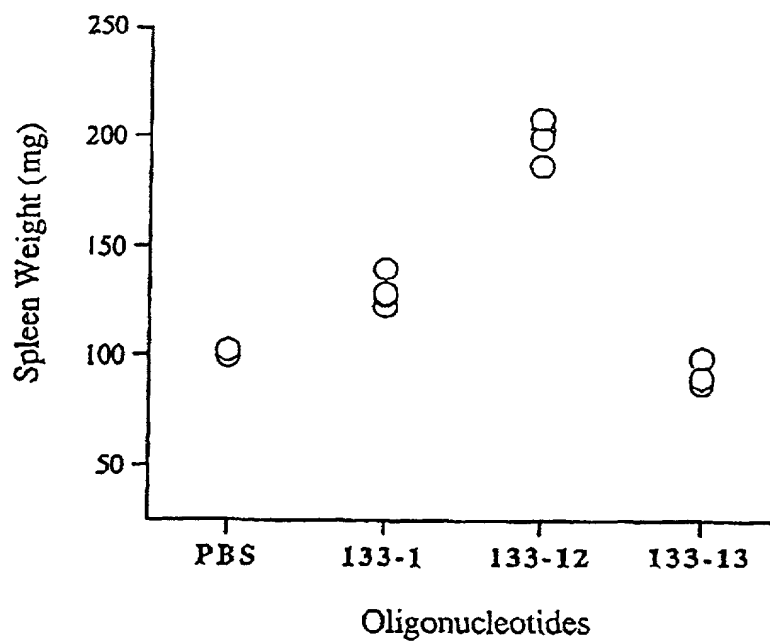


FIG. 3B